

# NLE11KK.4

## Energy-optimized Compressor

### R600a

### 220-240V 50Hz

#### General

Code number	105H6952
Approvals	EN 60335-2-34 with Annex AA
Compressors on pallet	80

#### Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -10	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	60 (70)	-
Max. winding temperature continuous (short)	°C	125 (135)	-

#### Cooling requirements at max. ambient temperature

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		S	-	-	-	-	-
38°C		S	-	-	-	-	-
43°C		S	-	-	-	-	-
Remarks on application:							

#### Motor

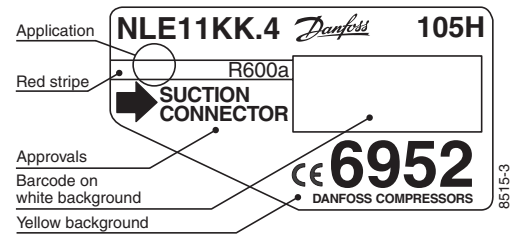
Motor type	RSIR/RSCR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	4.8
Cut in Current, HST   LST	A	-	9.3
Resistance, main   start winding (25°C)	Ω	16.4	15.7

#### Design

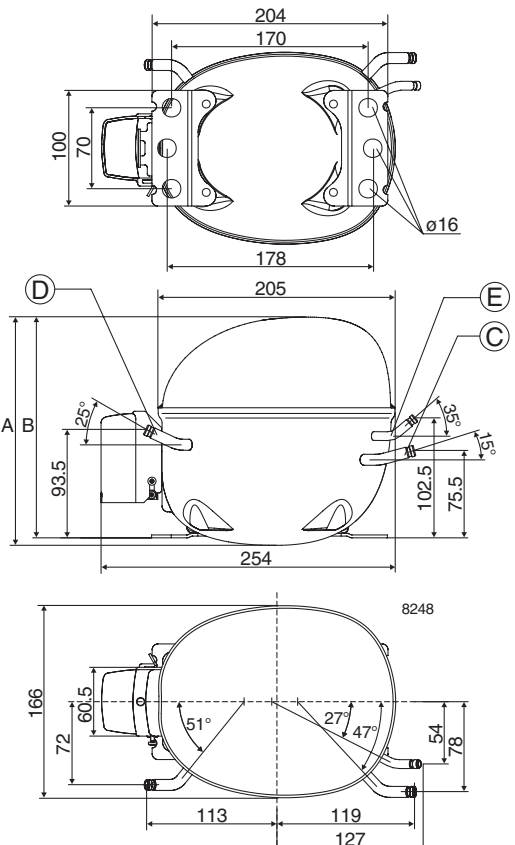
Displacement	cm <sup>3</sup>	11.15
Oil quantity (type)	cm <sup>3</sup>	270 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	2310
Weight without electrical equipment	kg	10.8

#### Dimensions

Height	mm	A	190
		B	183
		B1	-
		B2	-
Suction connector	location/I.D. mm   angle	C	6.2   15°
	material   comment		Cu-plated steel   Al caps
Process connector	location/I.D. mm   angle	D	6.2   25°
	material   comment		Cu-plated steel   Al caps
Discharge connector	location/I.D. mm   angle	E	5.0   35°
	material   comment		Cu-plated steel   Al caps
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment		-
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**EN 12900 Household (CECOMAF)** 220V, 50Hz, 2 W PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			81.5	109	143	156	184	232	290								
Power cons. in W			89.8	105	120	126	137	156	179								
Current cons. in A			0.71	0.75	0.80	0.82	0.87	0.95	1.05								
COP in W/W			0.91	1.05	1.19	1.24	1.34	1.48	1.62								

**EN 12900 Household (CECOMAF)** 220V, 50Hz, RC 4µF, 2 W PTC consumption incl., static cooling

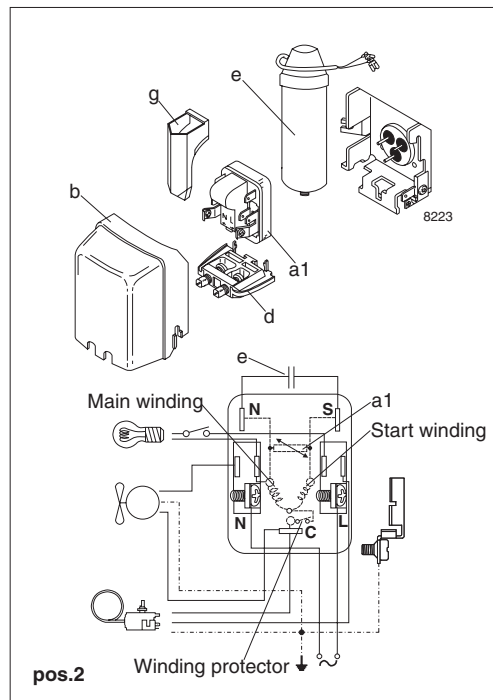
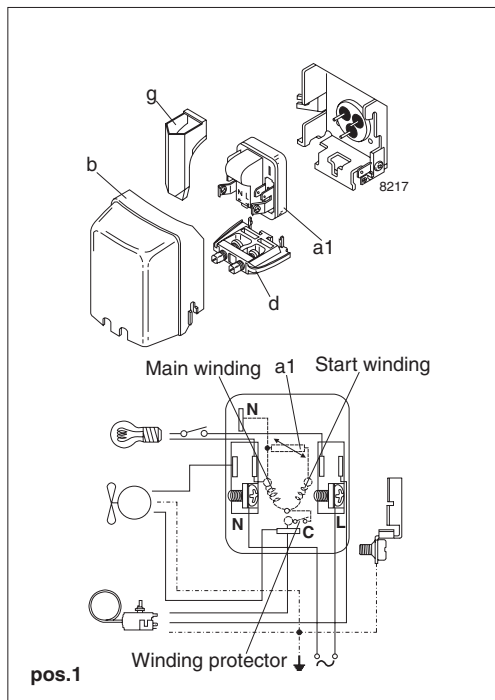
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			81.5	109	143	156	184	232	290								
Power cons. in W			88.0	102	117	122	133	151	172								
Current cons. in A			0.47	0.53	0.60	0.63	0.68	0.77	0.87								
COP in W/W			0.93	1.07	1.22	1.28	1.38	1.54	1.69								

**ASHRAE LBP** 220V, 50Hz, 2 W PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			99.6	133	175	191	224	284	354								
Power cons. in W			89.9	104	120	125	137	156	179								
Current cons. in A			0.71	0.75	0.80	0.82	0.87	0.95	1.05								
COP in W/W			1.11	1.28	1.46	1.52	1.64	1.82	1.98								

**ASHRAE LBP** 220V, 50Hz, RC 4µF, 2 W PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			99.6	133	175	191	224	284	354								
Power cons. in W			88.1	102	117	122	133	151	171								
Current cons. in A			0.47	0.53	0.60	0.63	0.68	0.77	0.87								
COP in W/W			1.13	1.31	1.50	1.56	1.69	1.88	2.06								



Accessories		Figure	Code number
PTC starting device	6.3 mm spade connectors	a1 <b>(pos.1)</b>	103N0011
	4.8 mm spade connectors		103N0018
ePTC starting device	4.8 mm spade connectors	a1	103N0050
PTC starting device	6.3 mm spade connectors	a1 <b>(pos.2)</b>	103N0016
	4.8 mm spade connectors		103N0021
Cover		b	103N2010
Cord relief		d	103N1010
Run capacitor 4 µF (optional)	6.3 mm spade connectors	e	117-7117
	4.8 mm spade connectors		117-7119
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/CECOMAF	ASHRAE
Condensing temperature	55°C	54.4°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	32°C

Mounting accessories	Code number	
Bolt joint for one compressor	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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